



**AmeriCoat™ is the best protective coating available for coils and heat exchangers, period!**

The AmeriCoat™ system has a unique multi-tiered approach to coil protection

1. AmeriCoat™ blocks corrosion
2. Maximizes operating life
3. Minimizes cleaning and maintenance
4. Improves Indoor Air Quality
5. Less than 1% effect on heat transfer

Because AmeriCoat™ is applied by immersion (or dipping) it offers unsurpassed coil protection, it bonds the coils heat transfer surface (fin collar) to the copper tube sealing out the potential for galvanic corrosion. This protects coils from losing capacity and efficiency.

Unlike other protective coatings, AmeriCoat™ bonds to the substrate, penetrating the pores of the metal, providing a protective barrier that polyurethane coating can't duplicate.

The AmeriCoat™ System produces a super hydrophobic (water shedding) surface. This coating will actively repel water and keep coated coils cleaner. This makes it very difficult for mold, algae or fungi to adhere to any of the coil surfaces, virtually eliminating corrosion. Any water that finds its way onto the surface of an AmeriCoat™ coated coil will bead up and roll right off, ... carrying any surface contaminant away with it, keeping the coil clean.

AmeriCoat™ is specially formulated to prevent the growth of micro-organisms on the coil. The coating contains titanium dioxide, Ciba Irgaguard silver ION and a quaternary ammonia biocide, all of these products are very effective individually, but applied synergistically; the benefit is even more pronounced.

Microorganisms don't simply prevent a health hazard and a loss of productivity in the work place, they reduce the efficiency and capacity of the HVAC equipment. Studies show that cleaning the coil in air handling equipment can reduce energy consumption by as much as 14%. (Study verifies coil cleaning saves energy; ASHRAE Journal Nov. 2006)





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## TECHNICAL INFORMATION

The AmeriCoat™ Coil Coating System is an (epoxy based) protective coating, coupled with a unique multi-step preparation and application process. The coating product and application procedures are specifically designed to achieve increased coil durability, minimize cleaning and service maintenance and maximize the operating life of the subject coil.

AmeriCoat™ contains Silver Ion anti-microbial; (CIBA Irgaguard) Titanium Dioxide and a Quaternary Ammonia Biocide. The protective qualities of these products are effective for the life of the coating.

The AmeriCoat™ System produces a super hydrophobic (water shedding) surface that is grey in color. This coating will actively repel water and keep coated coils cleaner. This makes it very difficult for mold, algae or fungi to adhere to any coil surface improving indoor air quality.

### CERTIFICATIONS

ASTM Standard	Dry Film Thickness	Result	Description
ASTM B117	7-9 MICRONS	10,000 HOURS	SALT SPRAY
ASTM G85 A1	7-9 MICRONS	4000 HOURS	ACIDIFIED SALT SPRAY
ASTM G21	7-9 MICRONS	PASS "0" growth score	ANTI BACTERIA
ASTM G22	7-9 MICRONS	PASS "0" growth score	ANTI MOLD
MIL-STD-810 510.5	7-9 MICRONS	EXCELLENT	SAND DUST RESIST
ASTM G87	7-9 MICRONS	50 cycles no corrosion	MOIST SO2 TEST
FDA TI 21 CFR175.300	7-9 MICRONS	APPROVED	FOOD CONTACT CERT

Chemical Resistance: Excellent; Please refer to chemical resistance table

FDA approved for food safety

Suitable for coil temperatures up to 300 degrees Fahrenheit

AmeriCoat™ is considered a "Green" coating. It is water based and has just 85 grams VOC's per liter!

AmeriCoat™ easily qualifies for LEED credits as related to anti corrosive coatings.

AmeriCoat™ is UL listed

### APPLICATION DATA:

Application method: Once subject coils are properly prepared, the initial base coating is applied by completely immersing the subject coil into the liquefied coating product. Once all coating application steps have been completed (and inspected for quality), the coated coil goes through a high temperature curing process. Once cured, the coil is completely encased in a hard (but surprisingly flexible) super hydrophobic product that extends coil life, improves indoor air quality and is resistant to UVC light.

Film thickness: 7-9 microns d.f.t. (dry film thickness) per coat, coils can be double dipped for added protection

AmeriCoat™ has the lowest heat transfer reduction of any coil coating <.05%!

